PROJECT DESCRIPTION

I. GENERAL

This project involves the upgrading of an existing Traffic Control Flasher to a full color Traffic Control Signal at the intersection of MD33 (St Michaels Rd) and MD 370 (Unionville Rd) / Old Bloomfield Rd in Talbot County. The existing street lighting shall remain. An advance Traffic Signal Warning Beacon shall be installed on the eastbound approach of MD 33. MD 33 (St Michaels Rd) is assumed to run an east-west direction. Video detection shall be used for the MD 370 (Unionville Rd) / Old Bloomfield Rd approaches.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA four-phase, semi-actuated mode, with the MD33 (St Michaels Rd) approaches running concurrently. The MD 370 (Unionville Rd) / Old Bloomfield Rd approaches shall also run concurrently.
- 2. The existing cabinet shall be utilized at the intersection of MD33 (St Michaels Rd) and MD 370 (Unionville Rd) / Old Bloomfield Rd. A new full-traffic-actuated, eight-phase controller with one (1) four channel, rack mount loop detector amplifier and power supply shall be installed into the cabinet.
- 3. A full-traffic-actuated, eight-phase controller housed in a NEMA size "5" pole-mounted cabinet shall be installed for the Traffic Signal Warning Beacon..

III. SPECIAL NOTES

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- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

Α.	EQUIPMENT TO BE SUPPLIED BY S	.H.A	
ITEM NO.	DESCRIPTION	QUANTI	ΤY
9001	Detector rack power supply (To be instaled by SHA forces)	1	EΑ
9016	Detector amplifier 4-channel rack mount (To be installed into the existing cabinet by S.H.A. Forces).	1	ΕA
9042	Controller ASC II with telemetry	1	ΕA
9086	Video Interface Detection Equipment (1-4 Camers) to be installed by signal shop	1	EΑ
9570	Sheet aluminum signs to consist of: (ground mount)	16	SF
	W3-3 NEW "SIGNAL AHEAD" sign. (48" x 48") ground mounted with hardware.	1	ΕA
9571	Sheet aluminum signs to consist of: (mast arm)	9	SF
	W3-3 NEW "SIGNAL AHEAD" sign. (36" x 36") with hardware.	1	EΑ

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

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ITEM NO.	DESCRIPTION	QUANT	ITY
1001	Maintenance of traffic per assignment.	2	EΑ
2002	Test Pit Excavation	1	C.Y.
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	80	L.F.
6005	Traffic barrier with beam.	100	L.F.
6007	Special traffic barrier with beam end treatment.	1	EA
6008	Traffic barrier with beam trail end anchorage.	1	EΑ
8001	Pre-manufactured camera to controller (250' length) cable	2	ΕA
8006	Cut, clean, galvanize and Cap Traffic Signal Structure	2	ΕA

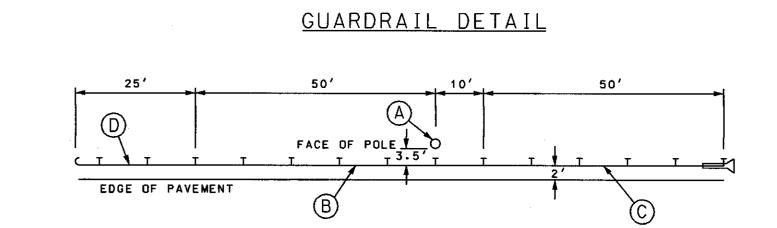
EQUIPMENT LIST (CONT.)

В.	EQUIPMENT TO BE FURNISHED AND/OR INSTAL	LED BY	THE CONTRACTOR
ITEM NO.	DESCRIPTION	QUANTI	ТҮ
8011	Furnish and install 12" vehicular traffic signal head section	32	EA
8023	Furnish and install 27' mast arm pole and 60' mast arm.	1	EA
8043	Furnish and install non-invasive probe set with 1000' lead-in cable.	1	EA
8044	Furnish and install non-invasive probe set with 500' lead-in cable.	2	EA
8048	Remove and dispose of existing material and equipment per assignment.	1	EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit – trenched	1325	L.F.
8057	Furnish and install concrete for signal foundation.	5	C.Y.
8059	Furnish and install wood sign supports 4" x 6".	30	L.F.
8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	750	L.F.
8064	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored.	115	L.F.
8066	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - slotted	30	L.F.
8072	Furnish and install electrical handhole.	11	EA
8074	Install ground mounted sign.	16	S.F.
8075	Install overhead sign.	9	S.F.
0808	Furnish and install ground rod - 3/4" x 10'.	1	EA
8084	Furnish and install electrical cable – 5 conductor (No. 14 AWG).	825	L.F.

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
Y	Ŷ	RYG	RYG	RYG	RYG	R	R Y G	R Y G	RYG	R Y G	RYG

PHASE 2 & 6	FL/Y	FL/Y	G	G	G	G	G	G	R	R	R	R	<u>+</u>
2 & 6 CHANGE	FL/Y	FL/Y	Υ	Υ	Y	Y	Y	Υ	R	R	R	R	
PHASE 4 & 8	FL/Y	FL/Y	R	R	R	R	R	R	G	G	G	G	↓ ⊢
4 & 8 CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	Y	Υ	Y	Y	
FLASHING OPERATION	FL/Y	FL/R	FL/R	FL/R	FL/R	+ ↑ ↑ 							



NOTES:

- A. PROPOSED TRAFFIC SIGNAL POLE
 B. INSTALL SINGLE FACE TRAFFIC BARRIER (W BEAM)
- C. INSTALL TRAFFIC BARRIER TYPE "C" TRAFFIC BARRIER END TREATMENT
- STANDARD NO. MD 605.03

 D. INSTALL TRAFFIC BARRIER TYPE "1" TRAFFIC BARRIER END TREATMENT STANDARD NO. MD 605.10

B, C, D, E, F, G

B, C, D, E,

400 Crain Hwy, N.W. Glen Burnle, MD 21061 Ph (410) 590-5500 Fax (410) 590-6637 WIRING KEY

A - 5-CONDUCTOR ELECTRICAL
CABLE (NO. 14 A.W.G)

B MICROLOOP LEAD-IN CABLE
G (1000')

C - MICROLOOP LEAD-IN CABLE
(500')

D PRE-MANUFACTURED CAMERA TO
E CONTROLLER CABLE (250')

F - STRANDED BARE COPPER GROUND
WIRE (NO. 6 A.W.G.)

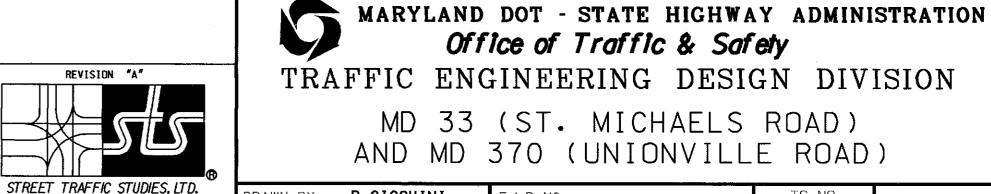
* - USE EXISTING WIRING

* - USE EXISTING WIRING
ES-EXISTING OVERHEAD SERVICE
TO BE MAINTAINED BY DP&L

PS-PROPOSED OVERHEAD SERVICE
TO BE INSTALLED BY DP&L

+ - GROUND ROD

SHA #: TA422453/B53 TOD#:XXX10.151-40



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	DRAWN BY: _ CHECKED BY:	R CICCHINI	F.A.P. NO. S.H.A. NO.	XX1065185	TS NO. 4172	SHEET NO.
	SCALE: _	NONE 2-10-04	COUNTY: LOG MILE:	TALBOT 20003320.93	T.I.M.S. NO. G083	2 of 2
			LOO 1411(L.S.			

The contact persons for District #2 are as follows:

Mr. Robert Kiel Assistant District Engineer – Traffic Phone: (410) 810–3240

Mr. Terry Wright
Assistant District Engineer – Maintenance
Phone: (410) 810–3250

Mr. Barry Clothier Assistant District Engineer - Utility Phone: (410) 810-3060

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787–7630

The power company representative is: